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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,246	01/30/2006	Avshalom Ehrlich	26/783	5469
DR. MARK M. FRIEDMAN C/O BILL POLKINGHORN - DISCOVERY DISPATCH			EXAMINER	
			GAMI, TEJAL	
9003 FLORIN WAY UPPER MARLBORO, MD 20772			ART UNIT	PAPER NUMBER
			2121	
			NOTIFICATION DATE	DELIVERY MODE
			04/30/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
Office Action Comment	10/566,246	EHRLICH, AVSHALOM				
Office Action Summary	Examiner	Art Unit				
	TEJAL J. GAMI	2121				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 19 Fe	shruary 2000					
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<i>;</i> —	· —					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 455 C.G. 215.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.	Claim(s) 1-16 is/are pending in the application.					
·— · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
· · · ·						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

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DETAILED ACTION

1. This office action is responsive to a REQUEST FOR CONTINUED EXAMINATION entered February 19, 2009 for the patent application 10/566246.

Status of Claims

Claims 1-16 were rejected in the last Office Action dated October 16, 2008.
 As a response to the October 16, 2008 office action, Applicant has Amended

claims 1 and 11.

Claims 1-16 are now presented for examination in this office action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Rahim (U.S. Patent Number: 5,155,683)

As to independent claim 1, Rahim discloses a method to provide feedback to an operator (e.g., feedback loops) of a device (e.g., vehicle) (see Col. 12, Lines 55-64), comprising the steps of:

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a) providing a device (e.g., vehicle) having a feedback delay (e.g., a delay is introduced into the feedback loop) (see Col. 2, Lines 3-16);

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- b) displaying upon at least a portion of a display a first image of a view from said device (e.g., screen image) (see Col. 2, Lines 3-16), said device (e.g., vehicle) being at a first position (e.g., ground position) (see Col. 2, Lines 3-16);
- c) issuing a movement command to cause a desired movement of said device to a second position (e.g., operator's commands to the vehicle) (see Col. 2, Lines 3-16); and
- d) prior to the operator receiving real feedback of said movement command (e.g., vehicle's intended path is displayed) (see Col. 4, Lines 62-63);
 - i) predicting a second image of a view from said device at said second position (e.g., projected path) (see Col. 5, Line 35), said predicting including a processor (e.g., vehicle's computer) (see Col. 5, Lines 23-24) modifying said first image according to an operation selected from the group consisting of translation, rotation, magnification and reduction (e.g., zooms, pans or tilts) (see Col. 5, Lines 13-18), and
 - ii) displaying said second image substantially on said at least portion of said display on which said first image is displayed (e.g., superimposed on the image) (see Col. 4, Line 64), said second image replacing said first image (e.g., replace the old) (see Col. 5, Lines 19-22).

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As to independent claim 11, Rahim discloses a feedback system (e.g., feedback loops) for an operator (e.g., operator loop) (see Col. 12, Lines 55-64), comprising:

- a) a device (e.g., vehicle) including a camera (e.g., camera 30) (see Col. 6, Lines 55-56);
- b) a control arrangement configured for issuing a movement command (e.g., commands to the vehicle) to cause a desired movement of said device from a first position to a second position (e.g., responds to the commands by moving) (see Col. 3, Lines 50-53); and
 - c) a display (e.g., screen image) (see Col. 2, Lines 3-16) configured for:
 - i) displaying, upon at least a portion of said display (e.g., screen image), a first image of a view from said device (e.g., vehicle), said device being at a first position (e.g., ground position) (see Col. 2, Lines 3-16); and
 - ii) prior to the operator receiving real feedback of said movement command (e.g., vehicle's intended path is displayed) (see Col. 4, Lines 62-63):
 - A) predicting a second image of a view from said device at said second position (e.g., projected path) (see Col. 5, Line 35), said predicting including a processor (e.g., vehicle's computer) (see Col. 5, Lines 23-24) modifying said first image according to an operation selected from the group consisting of translation, rotation, magnification and reduction (e.g., zooms, pans or tilts) (see Col. 5, Lines 13-18), and
 - B) displaying said second image substantially on said at least

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portion of said display on which said first image is displayed (e.g., superimposed on the image) (see Col. 4, Line 64), said second image replacing said first image (e.g., replace the old) (see Col. 5, Lines 19-22).

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As to dependent claim 2, Rahim teaches the method of claim 1, wherein said second image is based upon at least part of said first image (e.g., superimposed on the image) (see Col. 4, Line 64).

As to dependent claim 3, Rahim teaches the method of claim 2, wherein said second image includes a filler section (e.g., grid) outside of said at least part of said first image (see Figure 3).

As to dependent claim 4, Rahim teaches the method of claim 3, wherein said filler section includes a pattern (e.g., grid) (see Figure 3).

As to dependent claim 5, Rahim teaches the method of claim 4, wherein said filler section includes a repetitive pattern (e.g., grid) (see Figure 3).

As to dependent claim 6, Rahim teaches the method of claim 3, wherein said filler section includes historic image data of said predicted view (e.g., operator sees a frame taken some time ago) (see Col. 5, Lines 28-29).

As to dependent claim 7, Rahim teaches the method of claim 1, further comprising the step of:

e) displaying a third image of an actual view from said device at said second position (e.g., real time images) (see Col. 13, Lines 18-19).

As to dependent claim 8, Rahim teaches the method of claim 1, further comprising the step of:

e) limiting said movement command to ensure that said second image can be based upon at least part of said first image (e.g., relative to ground points, the recalculated path line is superimposed on the screen and the operator can correct the projected vehicle path) (see Col. 5, Lines 30-35).

As to dependent claim 9, Rahim teaches the method of claim 1, wherein said step of issuing said movement command and said step of displaying said second image, occur substantially at the same time (e.g., instantaneous view) (see Col. 5, Lines 23-28).

As to dependent claim 10, Rahim teaches the method of claim 1, wherein said step of displaying said first image is performed by displaying said first image on a screen, said screen having a frame disposed thereon, said first image being disposed substantially within said frame and wherein said step of displaying said second image is performed by displaying said second image on said screen such that, said second image includes substantially all image elements of said first image (e.g., superimposed on the image) (see Col. 4, Line 64).

As to dependent claim 12, Rahim teaches the system of claim 11, wherein said display is further configured for displaying a third image of an actual view from the device at said second position (e.g., real time images) (see Col. 13, Lines 18-19).

As to dependent claim 13, Rahim teaches the method of claim 3, wherein said filler section includes filler image data (e.g., grid) (see Figure 3) and wherein at least a

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portion of said filler image data is manipulated (e.g., extended) in a manner substantially corresponding to said movement command (e.g., control) (see Col. 5, Lines 1-12).

As to dependent claim 14, Rahim teaches the system of claim 11, wherein said second image is based upon at least part of said first image and wherein said second image includes a filler section outside of said at least part of said first image and wherein said filler section includes filler image data (e.g., grid) (see Figure 3) and wherein at least a portion of said filler image data is manipulated (e.g., extended) in a manner substantially corresponding to said movement command (e.g., control) (see Col. 5, Lines 1-12).

As to dependent claim 15, Rahim teaches the method of claim 1, wherein said device is a vehicle operative to be remotely controlled (e.g., remotely controlled vehicle) (see Col. 4, Line 31; and Col. 6, Lines 51-63).

As to dependent claim 16, Rahim teaches the system of claim 11, wherein said device is a vehicle operative to be remotely controlled (e.g., remotely controlled vehicle) (see Col. 4, Line 31; and Col. 6, Lines 51-63).

Response to Arguments

5. Applicant's amendment and arguments filed February 19, 2009 have been fully considered. The amendment does not overcome the original art rejection and the arguments are not persuasive. The following are the Examiner's observations in regard thereto.

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Applicant Argues:

While continuing to traverse the Examiner's rejection, Applicant has, in order to expedite prosecution of the application, further amended independent claims 1 and 11 so as to include language making it absolutely clear that according to the method and system of the present invention the second image corresponds to a prediction of the actual image that would be viewed by the camera mounted on the remotely controlled device at the present time, and not merely an old image with superimposed graphical aids. The limitations added to currently amended claims 1 and 11 now make it absolutely clear that the second image is a predicted image of the present view from the camera, and not merely a delayed image from the camera with added graphics, as taught by Rahim '683.

Examiner Responds:

Examiner is not persuaded. See office action above, particularly prior art Col. 4, Lines 62-64 where the vehicle's intended path is displayed (e.g., predicted image). Under such considerations, the prior art anticipates the claims as written.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tejal J. Gami whose telephone number is (571) 270-1035. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Albert DeCady/ Supervisory Patent Examiner Tech Center 2100

/TJG/